

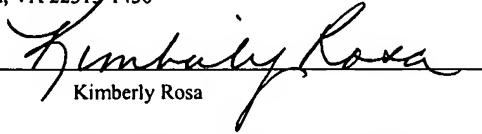
"Express Mail" Label No. EV 338472436 US
Date of Deposit November 24, 2003

PATENT
Attorney Docket No.: 02307B-099030US
Client Reference No.: B99-099

I hereby certify that this is being deposited with the United States Postal
Service "Express Mail Post Office to Address" service under 37 CFR 1.10
on the date indicated above and is addressed to:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

By: _____


Kimberly Rosa

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

David W. Ow et al.

Application No.: To Be Assigned

Filed: Herewith

For: DNA RECOMBINATION IN
EUKARYOTIC CELLS BY THE
BACTERIOPHAGE PHIC31
RECOMBINATION SYSTEM

Examiner: To Be Assigned (parent: K.
Katcheves)

Art Unit: To Be Assigned (parent: 1636)

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

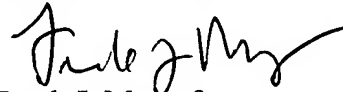
The references cited on the attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. In accordance with 37 CFR §1.98(d), copies of the references can be found in Application No. 09/620,800, filed July 21, 2000 (Attorney Docket No. 02307B-099010US). It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

Applicants, in particular, call the Examiner's attention to U.S. Patent Application 2002/0123145 A1 published on 09-05-2002.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Frank J. Mycroft
Reg. No. 46,946

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: 925-472-5000
Fax: 925-472-8895
FJM:jvl
60087820 v1

| | | | | | |
|---|---------------------------------------|----|--------------------------|------------------------------|-----------------|
| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | | Complete if Known | | |
| | | | Application Number | To Be Assigned | |
| | | | Filing Date | Herewith | |
| | | | First Named Inventor | Ow, David W. | |
| | | | Art Unit | To Be Assigned (parent:1636) | |
| Examiner Name | To Be Assigned (parent: K. Katcheves) | | | | |
| Sheet | 1 | of | 8 | Attorney Docket Number | 02307B-099030US |

| U.S. PATENT DOCUMENTS ⁺ | | | | | |
|------------------------------------|--------------------------|--|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number Kind Code ² (if known) | | | |
| | 1. | 5,190,871 | 03-02-1993 | Cox et al. | |
| | 2. | 5,527,695 | 06-18-1996 | Hodges et al. | |
| | 3. | 5,744,336 | 04-28-1998 | Hodges et al. | |
| | 4. | 5,910,415 | 06-08-1999 | Hodges et al. | |
| | 5. | 6,110,736 | 08-29-2000 | Hodges et al. | |
| | 6. | 6,114,600 | 09-05-2000 | Ow et al. | |
| | 7. | 6,143,530 | 11-07-2000 | Crouzet et al. | |
| | 8. | 6,175,058 | 01-16-2001 | Baszczynski et al. | |
| | 9. | 6,187,994 | 02-13-2001 | Baszczynski et al. | |
| | 10. | 6,262,341 | 07-17-2001 | Baszczynski et al. | |
| | 11. | 2002/0123145 A1 | 09-05-2002 | Ow | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|--------------------------|---------------------------|---------------------|-----------------------------------|--------------------------------|---|---|--------------------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | | Country Code ³ | Number ⁴ | Kind Code ⁵ (if known) | | | | |
| | 12. | WO | 97/37012 | | 10-09-1997 | Commonwealth Scientific and Industrial Research | | <input type="checkbox"/> |
| | 13. | WO | 99/18222 | A | 04-15-1999 | Alonso Juan C et al. | | <input type="checkbox"/> |
| | 14. | WO | 99/25821 | | 05-27-1999 | Pioneer Hi-Breed Int'l | | <input type="checkbox"/> |
| | 15. | WO | 00/11155 | A | 03-02-2000 | Leland Stanford Junior University | | <input type="checkbox"/> |
| | 16. | WO | 00/60091 | | 10-12-2000 | Oklahoma Medical Research Found. | | <input type="checkbox"/> |
| | 17. | WO | 01/07572 | A3 | 02-01-2001 | University of California | | <input type="checkbox"/> |
| | | | | | | | | <input type="checkbox"/> |

| | | | |
|-----------------------|--|--------------------|--|
| Examiner Signature | | Date Considered | |
|-----------------------|--|--------------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

60087820 v1

| | | | | | |
|---|---|----|---|--------------------------|---------------------------------------|
| Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | | | Complete if Known | |
| | | | | Application Number | To Be Assigned |
| | | | | Filing Date | Herewith |
| | | | | First Named Inventor | Ow, David W. |
| | | | | Art Unit | To Be Assigned (parent: 1636) |
| | | | | Examiner Name | To Be Assigned (parent: K. Katcheves) |
| Sheet | 2 | of | 8 | Attorney Docket Number | 02307B-099030US |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | 18. | ALBERT et al., "Site-specific integration of DNA into wild-type and mutant lox sites placed in the plant genome," Plant J., 7:649-59 (1995) | |
| | 19. | ALONSO et al., "The Bacillus subtilis Histone-like Protein Hbsu Is Required for DNA Resolution and DNA Inversion Mediated by the β Recombinase of Plasmid pSM19035," J. Biol. Chem., 270:2938-45 (1995) | |
| | 20. | ARAKI et al., "Site-specific Recombinase, R, Encoded by Yeast Plasmid pSR1," J. Mol. Biol., 225(1):25-37 (1992) | |
| | 21. | ARAKI et al., "Targeted integration of DNA using mutant lox sites in embryonic stem cells," Nucleic Acids Res., 25:868-72 (1997) | |
| | 22. | ARGOS et al. "The integrase family of site-specific recombinases: regional similarities and global diversity," EMBO J. 5(2):433-44 (1986) | |
| | 23. | BANNAM et al., "Molecular genetics of the chloramphenicol-resistance transposon Tn4451 from Clostridium perfringens: the TnpX site-specific recombinase excises a circular transposon molecule," Mol. Microbiol. 16(3):535-551 (1995) | |
| | 24. | BAUBONIS and SAUER, "Genomic targeting with purified Cre recombinase," Nucl. Acids Res., 21:2025-29 (1993) | |
| | 25. | BAYLEY et al., "Exchange of gene activity in transgenic plants catalyzed by the Cre-lox site-specific recombination system," Plant Mol. Biol., 18:353-61 (1992) | |
| | 26. | BECKER et al., "Fertile transgenic wheat from microprojectile bombardment of scutellar tissue," The Plant Journal, 5(2):299-307 (1994) | |
| | 27. | BETHKE and Sauer, "Segmental genomic replacement by Cre-mediated recombination: genotoxic stress activation of the p53 promoter in single-copy transformants," Nucleic Acids Res., 25:2828-34 (1997) | |
| | 28. | BHATTACHARYYA et al., "Reduced variation in transgene expression from a binary vector with selectable markers at the right and left T-DNA borders," Plant J., 6:957-68 (1994) | |
| | 29. | CARRASCO et al., "Anabaena xisF gene encodes a developmentally regulated site-specific recombinase," Genes & Dev. 8:74-83 (1994) | |
| | 30. | CHOI et al., "A new approach for the identification and cloning of genes: the pBACwch system using Cre/lox site-specific recombination," Nucl. Acids Res., 28:e19(i-vii) (2000) | |
| | 31. | CLUSTER et al., "Details of T-DNA structural organization from a transgenic Petunia population exhibiting co-suppression," Plant Molecular Biology, 32:1197-1203 (1996) | |
| | 32. | CORNEILLE et al., "Efficient elimination of selectable marker genes from the plastid genome by the CRE-lox site-specific recombination system," The Plant J., 27:171-78 (2001) | |
| | 33. | CRELLIN and ROOD, "The Resolvase/Invertase Domain of the Site-Specific Recombinase TnpX Is Functional and Recognizes a Target Sequence That Resembles the Junction of the Circular Form of the Clostridium perfringens Transposon Tn4451," J. Bacteriol. 179(16):5148-5156 (1997) | |
| | 34. | CRISONA et al., "Processive Recombination by Wild-type Gin and an Enhancer-independent Mutant," J. Mol. Biol., 243(3):437-57 (1994) | |

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

| | | | | | |
|--|---|----|--------------------------|---------------------------------------|-----------------|
| Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | Complete if Known | | |
| | | | Application Number | To Be Assigned | |
| | | | Filing Date | Herewith | |
| | | | First Named Inventor | Ow, David W. | |
| | | | Art Unit | To Be Assigned (parent: 1636) | |
| | | | Examiner Name | To Be Assigned (parent: K. Katcheves) | |
| Sheet | 3 | of | 8 | Attorney Docket Number | 02307B-099030US |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|---|-----------------|
| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T. ² |
| | 35. | DAVIES et al., "Somatic and germinal inheritance of an FLP-mediated deletion in transgenic tobacco," J. of Experimental Botany, 50:1447-56 (1999) | |
| | 36. | DAY et al., "Transgene integration into the same chromosome location can produce alleles that express at a predictable level, or alleles that are differentially silenced," GENES AND DEVELOPMENT, 14:2869-80 (2000) | |
| | 37. | DE BUCK et al., "Transgene silencing of invertedly repeated transgenes is released upon deletion of one of the transgenes involved," Plant Mol. Biol., 46:433-45 (2001) | |
| | 38. | DIAZ et al., "New Insights into Host Factor Requirements for Prokaryotic β -Recombinase-mediated Reactions in Mammalian Cells," J. Biol. Chem., 276:16257-64 (2001) | |
| | 39. | DIAZ et al., "The Prokaryotic β -Recombinase Catalyzes Site-specific Recombination in Mammalian Cells," J. Biol. Chem. 274(10):6634-6640 (1999) | |
| | 40. | FENG et al., "Site-specific Chromosomal Integration in Mammalian Cells: Highly Efficient CRE Recombinase-mediated Cassette Exchange," J. Mol. Biol., 292:779-85 (1999) | |
| | 41. | FINKEL and JOHNSON, "The Fis protein: it's not just for DNA inversion anymore," Mol. Microbiol. 6(22):3257-3265 (1992) | |
| | 42. | FORSBURG, S.L. (1993) Nucleic Acids Res 21:2955-2956 | |
| | 43. | FRIEDMAN, "Integration Host Factor: A Protein for All Reasons," Cell 55:545-554 (1988) | |
| | 44. | GLEAVE et al., "Selectable marker-free transgenic plants without sexual crossing: transient expression of cre recombinase and use of a conditional lethal dominant gene," Plant Mol. Biol., 40:223-35 (1999) | |
| | 45. | GRIMM et al. (1988) Mol. Gen. Genet. 215:81-86 | |
| | 46. | GROTH et al., "A phage integrase directs efficient site-specific integration in human cells," PNAS, 97:5995-6000 (2000) | |
| | 47. | HAJDUKIEWICZ et al., "Multiple pathways for Cre/lox-mediated recombination in plastids," The Plant J., 27:161-170 (2001) | |
| | 48. | HATFULL & GRINDLEY (1988) "Resolvases and DNA-invertases: a family of enzymes active in site-specific recombination" Chapter 11 In Genetic Recombination, eds. Kucherlipati, R., & Smith, G.R. (Am. Soc. Microbiol., Washington, DC), pp. 357-396 (1998) | |
| | 49. | HOHN et al., "Elimination of selection markers from transgenic plants," Current Opinion in Biotechnology, 12:139-43 (2001) | |
| | 50. | HOWE et al., "Cis-Effects of Heterochromatin and Euchromatic Gene Activity in Drosophila melanogaster," Genetics, 140:1033-45 (1995) | |
| | 51. | HUCL et al., "Impact of marker genes on agronomic performance of transgenic spring wheat," 3:189 | |

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

| | | | | | |
|--|---|----|---|--------------------------|---------------------------------------|
| Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | To Be Assigned |
| | | | | Filing Date | Herewith |
| | | | | First Named Inventor | Ow, David W. |
| | | | | Art Unit | To Be Assigned (parent: 1636) |
| | | | | Examiner Name | To Be Assigned (parent: K. Katcheves) |
| Sheet | 4 | of | 8 | Attorney Docket Number | 02307B-099030US |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | 52. | IGLESIAS et al., "Molecular and Cytogenetic Analyses of Stably and Unstably Expressed Transgene Loci in Tobacco," The Plant Cell, 9:1251-1264 (1997) | |
| | 53. | IYER et al., "Transgene silencing in monocots," Plant Mol. Biol., 43:323-46 (2000) | |
| | 54. | JONES, R. (Editor) Annual Review of Plant Physiology and Plant Molecular Biology, Vol. 47 (1996) | |
| | 55. | JORGENSEN, "Cosuppression, Flower Color Patterns, and Metastable Gene Expression States," Science, 268:686 (1995) | |
| | 56. | KAEPLER et al., "Epigenetic aspects of somaclonal variation in plants," Plant Mol. Biol., 43:179-88 (2000) | |
| | 57. | KEENEY & BOEKE (1994) Genetics 136:849-856 | |
| | 58. | KILBY et al., "Controlled induction of GUS marked clonal sectors in Arabidopsis," J. of Experimental Botany, 51:853-63 (2000) | |
| | 59. | KLUTH et al., "Inheritance and expression of transgenes in hexaploid wheat," 3:192 | |
| | 60. | KOHLI et al., "Transgene organization in rice engineered through direct DNA transfer supports a two-phase integration mechanism mediated by the establishment of integration hot spots," Proc. Natl. Sci. USA, 95:7203-7208 (1998) | |
| | 61. | KOLB and SIDDELL, "Genomic targeting of a bicistronic DNA fragment by Cre-mediated site-specific recombination," GENE, 203:209-16 (1997) | |
| | 62. | KOLOT et al., "Site-specific recombination in mammalian cells expressing the Int Recombinase of bacteriophage HK022," Mol. Biol. Reports, 26:207-13 (1999) | |
| | 63. | KONONOV et al., "Integration of T-DNA binary vector 'backbone' sequences into the tobacco genome: evidence for multiple complex patterns of integration," The Plant Journal, 11(5):945-957 (1997) | |
| | 64. | KOOTER et al., "Trans-inactivation of gene expression in plants," Current Opinion in Biotechnology, 4:166-171 (1993) | |
| | 65. | KUHSTOSS and RAO, "Analysis of the Integration Function of the Streptomyces Bacteriophage Φ C31," J. Mol. Biol., 222:897-908 (1991) | |
| | 66. | KUTSUKAKE et al., "A gene for DNA invertase and an invertible DNA in Escherichia coli K-12," Gene, 34(2-3):343-50 (1985) | |
| | 67. | LANDY, "Dynamic, Structural, and Regulatory Aspects of λ Site-Specific Recombination," Ann. Rev. Biochem., 58:913-949 (1989) | |
| | 68. | LOESSNER et al., "Complete nucleotide sequence, molecular analysis and genome structure of bacteriophage A118 of Listeria monocytogenes: implications for phage evolution," Mol. Microbiology, 35:324:40 (2000) | |

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

| | | | | | |
|--|---|----|---|--------------------------|---------------------------------------|
| Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | To Be Assigned |
| | | | | Filing Date | Herewith |
| | | | | First Named Inventor | Ow, David W. |
| | | | | Art Unit | To Be Assigned (parent: 1636) |
| | | | | Examiner Name | To Be Assigned (parent: K. Katcheves) |
| Sheet | 5 | of | 8 | Attorney Docket Number | 02307B-099030US |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | 69. | LOONSTRA et al., "Growth inhibition and DNA damage induced by Cre recombinase in mammalian cells," PNAS, 98:9209-14 (2001) | |
| | 70. | LYZNIK et al., "Activity of yeast FLP recombinase in maize and rice protoplasts," Nucleic Acids Res., 21:969-75 (1993) | |
| | 71. | LYZNIK et al., "FLP-mediated recombination of FRT sites in the maize genome," Nucleic Acids Res., 24(19):3784-9 (1996) | |
| | 72. | MAESER and KAHMANN, "The Gin recombinase of phase Mu can catalyze site-specific recombination in plant protoplasts," Mol. Gen. Genet. 230:170-176 (1991) | |
| | 73. | MATSUURA et al., "The sre Gene (ORF469) Encodes a Site-Specific Recombinase Responsible for Integration of the R4 Phage Genome," J. Bacteriol. 178(11):3374-3376 (1996) | |
| | 74. | MATZKE et al., "Transgene silencing by the host genome defense: implications for the evolution of epigenetic control mechanisms in plants and vertebrates," Plant Mol. Biol., 43:401-15 (2000) | |
| | 75. | MAUNDRELL, K. (1993) Gene 123:127-130 | |
| | 76. | MEDBERRY et al., "Intra-chromosomal rearrangements generated by Cre-lox site-specific recombination," Nucleic Acids Res., 23:485-90 (1995) | |
| | 77. | MEYER, "Transcriptional transgene silencing and chromatin components," Plant Mol. Biol., 43:221-34 (2000) | |
| | 78. | MUSKENS et al., "Role of inverted DNA repeats in transcriptional and post-transcriptional gene silencing," Plant Mol. Biol., 43:243-60 (2000) | |
| | 79. | NEHRA et al., "Self-fertile transgenic wheat plants regenerated from isolated scutellar tissues following microprojectile bombardment with two distinct gene constructs," The Plant Journal, 5(2):285-297 (1994) | |
| | 80. | O'GORMAN et al., "Recombinase-Mediated Gene Activation and Site-Specific Integration in Mammalian Cells," Science, 251:1351-55 (1991) | |
| | 81. | OHI et al. (1996) Gene 174:315-318 | |
| | 82. | ONOUCHI et al., Visualization of site-specific recombination catalyzed by a recombinase from Zygosaccharomyces rouxii in Arabidopsis thaliana," Mol. Gen. Genet. 247: 653-660 (1995) | |
| | 83. | OW and AUSUBEL, "Conditionally Replicating Plasmid Vectors That Can Integrate into the Klebsiella pneumoniae Chromosome via Bacteriophage P4 Site-Specific Recombination," J. Bacteriol. 155(2): 704-713 (1983) | |
| | 84. | OW, "Recombinase-directed chromosome engineering in plants," Current Opinion in Biotechnology, 7:181-86 (1996) | |
| | 85. | OW, "The right chemistry for marker gene removal?," NATURE BIOTECHNOLOGY, 19:115-6 (2001) | |

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

| | | | | | |
|--|---|----|--------------------------|---------------------------------------|-----------------|
| Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | Complete if Known | | |
| | | | Application Number | To Be Assigned | |
| | | | Filing Date | Herewith | |
| | | | First Named Inventor | Ow, David W. | |
| | | | Art Unit | To Be Assigned (parent: 1636) | |
| | | | Examiner Name | To Be Assigned (parent: K. Katcheves) | |
| Sheet | 6 | of | 8 | Attorney Docket Number | 02307B-099030US |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | 86. | OW, "Recombinase-directed plant transformation for the post-genomic era," Plant Molecular Biology, 48:183-200 (2002) | |
| | 87. | PAWLOWSKI et al., "Transgene Inheritance in Plants Genetically Engineered by Microprojectile Bombardment," Molecular Biology, 6:17-30 (1996) | |
| | 88. | PESEHKE and PHILLIPS, "Genetic Implications of Somaclonal Variation in Plants," Advances in Genetics, 30:41-75 (1992) | |
| | 89. | QIN et al., "Cre recombinase-mediated site specific recombination between plant chromosomes," Proc. Natl. Acad. Sci., 91:1706-10 (1994) | |
| | 90. | QIN et al., "Site-specific cleavage of chromosomes in vitro through Cre-lox recombination," Nucleic Acids Res., 23:1923-7 (1995) | |
| | 91. | SABELLI et al., "Nucleic Acid Blotting and Hybridisation," Methods In Plant Biochemistry, 10:79 (1993) | |
| | 92. | SADOWSKI, "Site-specific genetic recombination: hops, flips, and flops," FASEB J. 7:760-767 (1993) | |
| | 93. | SADOWSKI, "Site-Specific Recombinases: Changing Partners and Doing the Twist," J. Bacteriol. 165(2): 341-347 (1986) | |
| | 94. | SATO et al., "The cisA Cistron of Bacillus subtilis Sporulation Gene spoIVC Encodes a Protein Homologous to a Site-Specific Recombinase," J. Bacteriol. 172(2):1092-1098 (1990) | |
| | 95. | SAUER, "Site-specific recombination: developments and applications, Curr. Opin. in Biotechnol. 5:521-527 (1994) | |
| | 96. | SCHMIDT et al., "Illegitimate Cre-dependent chromosome rearrangements in transgenic mouse spermatids," PNAS, 97:13702-7 (2000) | |
| | 97. | SEIBLER and BODE, "Double-Reciprocal Crossover Mediated by FLP-Recombinase: A Concept and an Assay," Biochem., 36:1740-7 (1997) | |
| | 98. | SEIBLER et al., "DNA Cassette Exchange in ES Cells Mediated by FLP Recombinase: An Efficient Strategy for Repeated Modification of Tagged Loci by Marker-Free Constructs," Biochemistry, 37:6229-34 (1998) | |
| | 99. | SRIVASTAVA and OW, "Single-copy primary transformants of maize obtained through the co-introduction of a recombinase-expressing construct," Plant Mol. Biol., 46:561-566 (2001) | |
| | 100. | SRIVASTAVA et al., "A General Strategy For Introducing A Single Copy Transgene Into Plant Genome: Demonstration Of Single Copy Transgenic Lines Of Wheat (Triticum aestivum)," Published Internet Nov. 1997 | |
| | 101. | SRIVASTAVA et al., "Molecular characterization of the fate of transgenes in transformed wheat (Triticum aestivum L.)," Theor Appl Genet, 92:1031-1037 (1996) | |
| | 102. | SRIVASTAVA et al., "Single-copy transgenic wheat generated through the resolution of complex integration patterns," Proc. Natl. Acad. Sci. USA, 96:11117-11121 (1999) | |

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

| | | | | | |
|--|---|----|---|--------------------------|---------------------------------------|
| Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | To Be Assigned |
| | | | | Filing Date | Herewith |
| | | | | First Named Inventor | Ow, David W. |
| | | | | Art Unit | To Be Assigned (parent: 1636) |
| | | | | Examiner Name | To Be Assigned (parent: K. Katcheves) |
| Sheet | 7 | of | 8 | Attorney Docket Number | 02307B-099030US |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | 103. | STARK et al., "Catalysis by site-specific recombinases, Trends Genetics 8(12):432-439 (1992) | |
| | 104. | STAVENHAGEN and ZAKIAN, "Internal tracts of telomeric DNA act as silencers in Saccharomyces cerevisiae," Genes and Dev., 8:1411-22 (1994) | |
| | 105. | STRAGIER et al., "Chromosomal Rearrangement Generating a Composite Gene for a Developmental Transcription Factor," Science 243:507-512 (1989) | |
| | 106. | THOMASON et al., "Gene insertion and replacement in Schizosaccharomyces pombe mediated by the Streptomyces bacteriophage Φ C31 site-specific recombination system," Mol. Genet. Genomics, 265:1031-8 (2001) | |
| | 107. | THORPE and SMITH, "In vitro site-specific integration of bacteriophage DNA catalyzed by a recombinase of the resolvase/invertase family," Proc. Nat'l. Acad. Sci. USA 95:5505-5510 (1998) | |
| | 108. | THYAGARAJAN et al., "Mammalian genomes contain active recombinase recognition sites, GENE, 244:47-54 (2000) | |
| | 109. | THYAGARAJAN et al., "Site-Specific Genomic Integration in Mammalian Cells Mediated by Phage Φ C31 Integrase," Mol. and Cell. Biol., 21:3926-34 (2001) | |
| | 110. | TOMINAGA et al., "Site-Specific Recombinase Genes in Three Shigella Subgroups and Nucleotide Sequences of a pinB Gene and an Invertible B Segment from Shigella boydii," J. Bacteriol., 173(13):4079-87 (1991) | |
| | 111. | VASIL et al., "Rapid Production of Transgenic Wheat Plants by Direct Bombardment of Cultured Immature Embryos," Bio/Technology, 11:1553 (1993) | |
| | 112. | VERGUNST and HOOYKAAS, "Cre/lox-mediated site-specific integration of Agrobacterium T-DNA in Arabidopsis thaliana by transient expression of cre," Plant Mol. Biol., 38:393-406 (1998) | |
| | 113. | VERGUNST et al., "Cre/lox-mediated recombination in Arabidopsis: evidence for transmission of a translocation and a deletion event," Chromosoma, 109:287-97 (2000) | |
| | 114. | VERGUNST et al., "Site-specific integration of Agrobacterium T-DNA in Arabidopsis thaliana mediated by Cre recombinase," Nucleic Acids Res., 26:2729-34 (1998) | |
| | 115. | VERGUNST et al., "VirB/D4-Dependent Protein Translocation from Agrobacterium into Plant Cells," Science, 290:979-82 (2000) | |
| | 116. | VOZIYANOV et al., "A general model for site-specific recombination by the integrase family recombinases," Nucl. Acids Res. 27(4):930-941 (1999) | |
| | 117. | WALLRATH and ELGIN, "Position effect variegation in Drosophila is associated with an altered chromatin structure," Genes and Dev., 9:1263-77 (1995) | |
| | 118. | WEEKS et al., "Rapid Production of Multiple Independent Lines of Fertile Transgenic Wheat (Triticum aestivum)," Plant Physiol., 102:1077-1084 (1993) | |
| | 119. | WEISBERG & LANDY (1983) "Site-specific Recombination in Phage Lambda" In <u>Lambda II</u> , eds. Hendrix et al. (Cold Spring Harbor Laboratory, Cold Spring Harbor NY) pp. 211-250 (1983) | |

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

| | | | | | |
|---|---|----|---|-------------------------------|---------------------------------------|
| Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | | | Complete if Known | |
| | | | | <i>Application Number</i> | To Be Assigned |
| | | | | <i>Filing Date</i> | Herewith |
| | | | | <i>First Named Inventor</i> | Ow, David W. |
| | | | | <i>Art Unit</i> | To Be Assigned (parent: 1636) |
| | | | | <i>Examiner Name</i> | To Be Assigned (parent: K. Katcheves) |
| Sheet | 8 | of | 8 | <i>Attorney Docket Number</i> | 02307B-099030US |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|--------------------------|---|----------------|
| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | 120. | ZUO et al., "Chemical-regulated, site-specific DNA excision in transgenic plants," Nature Biotechnology, 19:157-61 (2001) | |
| | | | |

| | | | |
|-----------------------|--|--------------------|--|
| Examiner Signature | | Date Considered | |
|-----------------------|--|--------------------|--|

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.